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(21)Application number : 07-248167 (71)Applicant : NATL INST FOR RES IN INORG
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(54) LIPOPHILIC INORGANIC FILLER AND COMPOSITE RESIN COMPOSITION

(57)Abstract:

PROBLEM TO BE SOLVED: To obtain a lipophilic inorg. filler well swollen with a small amt. of org. cations and improving the heat resistance and rigidity of a composite resin compsn. having a high aspect ratio.

SOLUTION: Org. cations are intercalated into a swellable silicate represented by the formula [Aa(XbYc)(Si_{4-d}Al_d)O₁₂(OHeF_{2-e})] and having $\geq 2\mu\text{m}$ average grain diameter of single crystal grains, 70-250Å/charge charge density and a smectite structure to obtain the objective lipophilic inorg. filler. In the formula, $0.2 \leq a \leq 0.7$, $0 \leq b \leq 3$, $0 \leq c \leq 2$, $0 \leq d \leq 4$, $0 \leq e \leq 2$, A is at least one cation selected from among alkali metal ions and alkaline earth metal ions, X and Y are cations entering into each octahedron in the smectite structure, X is at least one among Mg, Fe, Mn, Ni, Zn and Li, and Y is at least one among Al, Fe, Mn and Cr.

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